

# CONCEALED PENDENT SPRINKLER

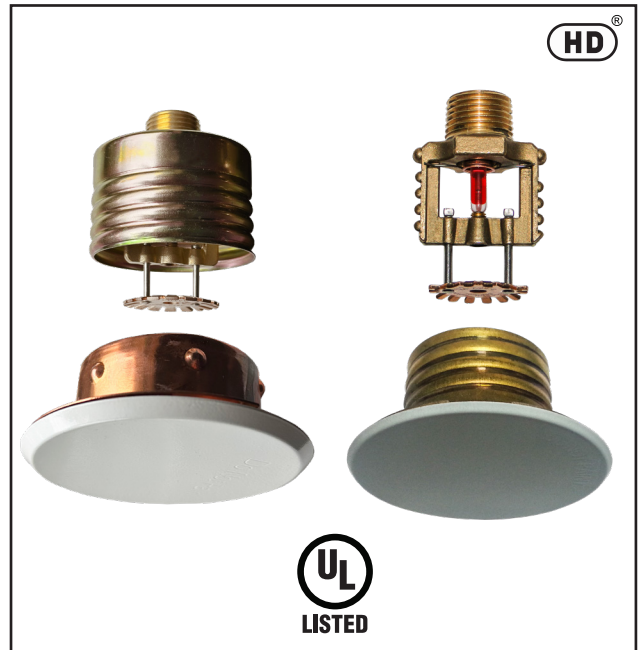
## STANDARD & QUICK RESPONSE



### TECHNICAL DATA

STYLE	Concealed Sprinkler
TEMPERATURE RESPONSE	Standard Response with 5mm glass bulb, Quick Response with 3mm glass bulb
COVERAGE	Standard Coverage
K-FACTOR	5.6 US (80 metric)
NOMINAL THREAD SIZE	½" NPT or BSPT
MAX. WORKING PRESSURE	175 psi (12 bar)
FACTORY HYDROSTATIC TEST PRESSURE	500 psi (35 bar)
MIN. OPERATING PRESSURE	7 psi (0.5 bar)
SIN NUMBER	Standard Response: HD 604 & HD 104  Quick Response: HD 704 & HD 204
FINISH	Sprinkler - Brass Cover Plate - White/ Chrome Plated/ Custom shade Standard colour shade of White Concealed Cover Plate is RAL 9010.
ORDERING INFORMATION	SIN, Style, Temperature Rating, Thread size, Finish, Cover specification (concealed)
TEMPERATURE RATING	Refer to below Table

Type	SIN No.	Sprinkler Temperature Rating °F (°C)	Cover Temperature Rating °F (°C)
Standard Response	HD604	135 (57) or 155 (68)	135 (57)
		175 (79) or 200 (93)	165 (73)
Quick Response	HD704	135 (57) or 155 (68)	135 (57)
		175 (79) or 200 (93)	165 (73)
Standard Response	HD104	135 (57) or 155 (68)	135 (57)
		175 (79) or 200 (93)	155 (68)
Quick Response	HD204	155 (68)	135 (57)



### DESCRIPTION

#### Pendent Concealed Sprinklers

HD Pendent Concealed Sprinklers are thermo-sensitive glass bulb sprinklers having decorative flat cover plate designed to conceal the sprinkler for smooth ceiling. The cover plates are available in several finishes to match architectural requirements. The unique design allows installation and testing of the sprinkler prior to installation of the cover plate with cup. Sprinkler housing is threaded to fix cover plate with cup assembly to provide required vertical adjustment.

The cover plate and cup design allows installation of the sprinkler and pressure testing of the fire fighting system prior to installation of a suspended ceiling or final painting of the ceiling. The sprinkler cover assembly can be removed and reinstalled for removal of ceiling panels for access to building service equipments. HD Pendent Concealed Sprinklers are Standard Response (5mm glass bulb) or Quick response (3mm glass bulb) with standard coverage. HD Concealed Sprinklers are UL Listed.

#### Sprinkler Operation

The Sprinkler operating device is state of the art heat responsive frangible glass bulb supplied by a world leader in this innovative technology. The glass bulb contains a fluid which expands when exposed to heat.

When the rated temperature is reached, the bulb shatters and water flows through the sprinkler and strikes the deflector, forming a uniform water spray pattern to control or extinguish the fire.

## Care and Handling

The sprinkler must be handled with due care. They must be stored in cool place for best results. The storage as well as any onward shipment has to be made in original packing only. Sprinklers must be visually inspected carefully before installation. Sprinklers visibly damaged, dropped or exposed to temperature in excess of the maximum ambient temperature permitted should never be installed. Never install any glass bulbs sprinkler if the bulb is cracked or if there is a loss of liquid from the Bulb.

Sprinkles must be installed after the piping is in place, to prevent mechanical damage.

Use Teflon tape or soft thread sealant on male thread of the sprinkler for leak tight sprinkler joint. Use proper wrench. Use appropriate torque. Excessive tightening torque may distort the sprinkler inlet and cause leakage. Sprinklers must never be painted, plated or coated after they leave factory.

HD sprinklers described herein must be installed and maintained in accordance with the latest edition of HD technical data, the latest standards of the National Fire Protection Association (NFPA) and UL or to the standard of any other authorities having jurisdiction. The owner is solely responsible for maintaining their fire protection system and devices in proper operating condition.

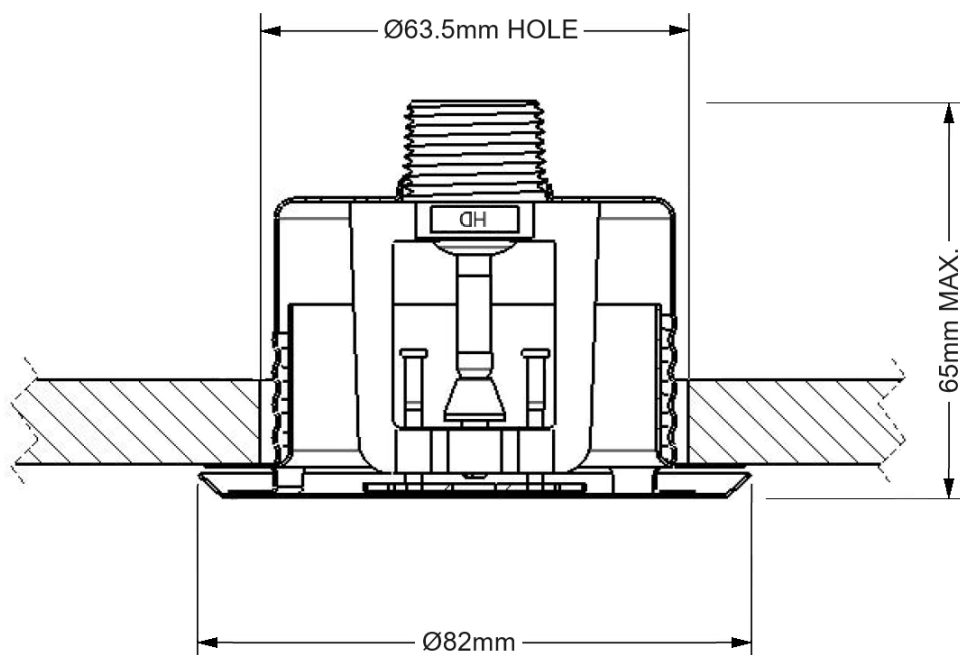
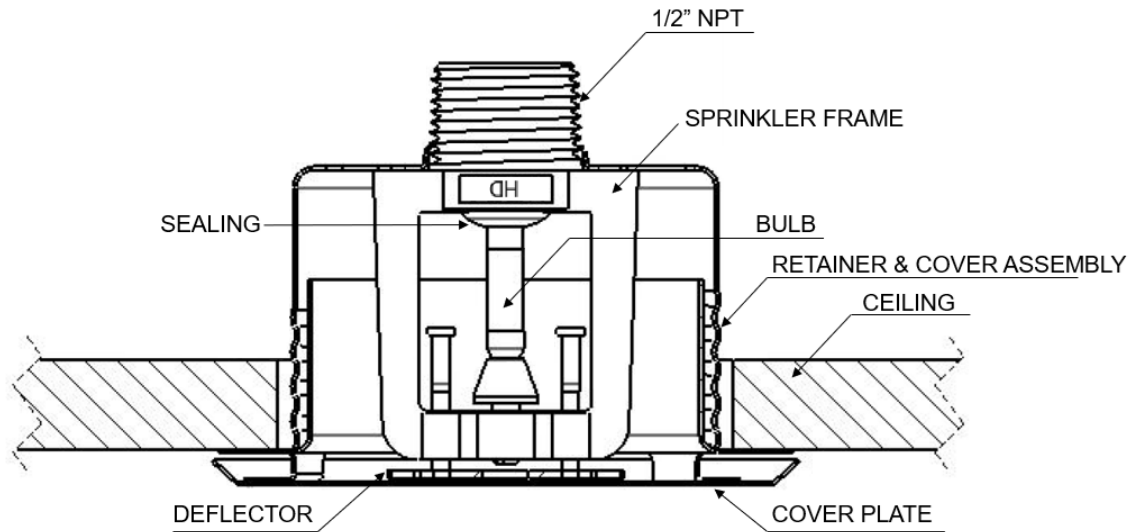
## Inspection, Testing, Maintenance Guidelines

- **Inspection Guidelines:** Replace the Concealed sprinklers that have been dropped, damaged, or exposed to high temperatures more than the maximum ambient temperature allowed. Or those which were subjected to direct sunlight and confined areas with higher temperatures.
- **Tightening of Cover Plate & Sprinklers:** If the Sprinkler is visibly damaged due to over tightening then immediately replace it.
- **Replacement of Leaking Sprinklers:** Any sprinklers found to be leaking or displaying any visible signs of corrosion must be promptly replaced to maintain the integrity of the fire protection system.
- **Temperature and Handling:** Automatic sprinklers should not be transported or stored in environments where temperatures exceed 40°C. Additionally, great care must be taken to prevent damage during handling, installation, and maintenance.
- **Corrosion Exposure:** Sprinklers exposed to corrosive combustion byproducts should be replaced.
- **Damage Replacement:** Sprinklers with cracked bulb or loss of liquid from its bulb must be replaced.

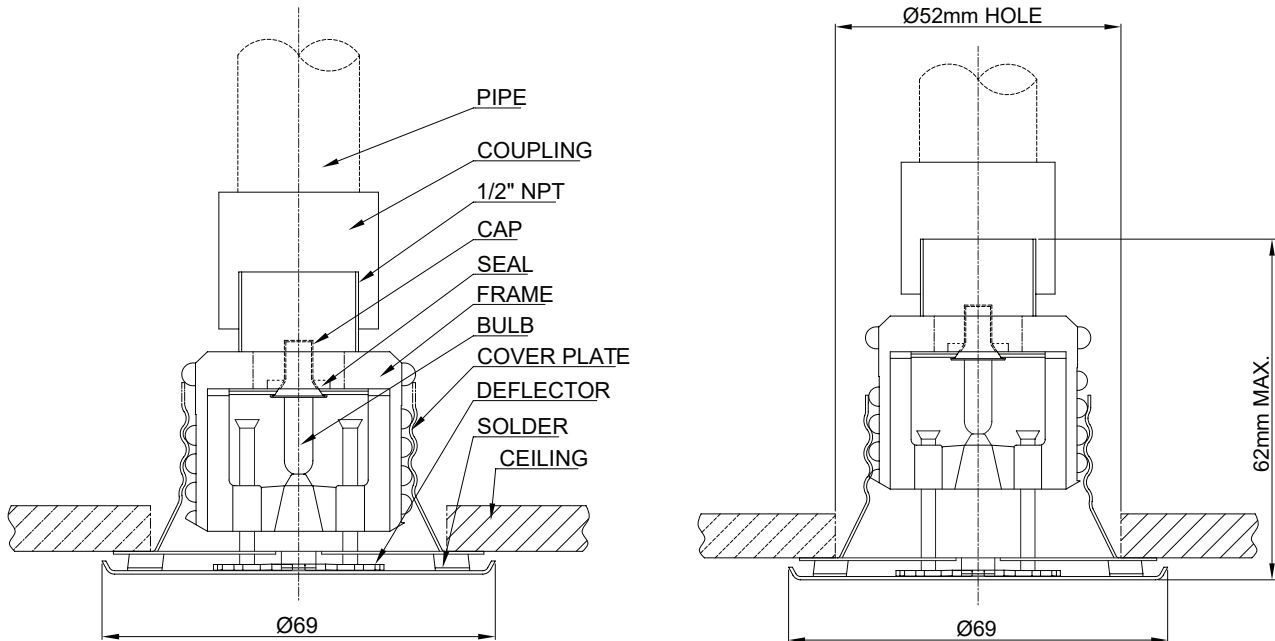
- **Cover Plate Assembly:** If a sprinkler needs to be removed for any reason, it should not be reinstalled or replaced, without reinstalling the Cover Plate Assembly. Immediate replacement is necessary if the Cover Plate Assembly becomes dislodged during service.
- **Responsibility of Inspection and Maintenance:** The responsibility for inspecting, testing, and maintaining the fire protection system and its components lies with the owner. Compliance with relevant standards, such as those set by the National Fire Protection Association (NFPA 25) or AHJ, is essential. For any inquiries, please contact the certified installation contractor.
- **Regular Inspection and Maintenance:** To ensure the continued reliability of automatic sprinkler systems, it is strongly advised that they undergo regular inspection, testing, and maintenance by qualified professionals.

For details of warranty, refer to the last section of this catalogue and in case of any further questions contact HD Sales.

HD 604/ HD 704 - CONCEALED SPRINKLER ASSEMBLY



## HD 104/ HD 204 - CONCEALED SPRINKLER ASSEMBLY



### LIMITED WARRANTY

HD FIRE PROTECT PVT. LTD. hereby referred to as HD FIRE warrants to the original purchaser of the fire protection products manufactured by HD FIRE and to any other person to whom such equipment is transferred, that such products will be free from defect in material and workmanship under normal use and care, for two (2) years from the date of shipment by HD FIRE. Products or Components supplied or used by HD FIRE, but manufactured by others, are warranted only to the extent of the manufacturer's warranty. No warranty is given for product or components which have been subject to misuse, improper installation, corrosion, unauthorized repair, alteration or un-maintained. HD FIRE shall not be responsible for system design errors or improper installation or inaccurate or incomplete information supplied by buyer or buyer's representatives. HD FIRE will repair or replace defective material free of charge, which is returned to our factory, transportation charge prepaid, provided after our inspection the material is found to have been defective at the time of initial shipment from our works. HD FIRE shall not be liable for any incidental or consequential loss, damage or expense arising directly or indirectly from the use of the product including damages for injury to person, damages to property and penalties resulting from any products and components manufactured by HD FIRE. HD FIRE shall not be liable for any damages or labour charges or expense in making repair or adjustment to the product. HD FIRE shall not be liable for any damages or charges sustained in the adaptation or use of its engineering data & services. In no event shall HD Fire's product liability exceed an amount equal to the sale price. The foregoing warranty is exclusive and in lieu of all other warranties and representation whether expressed, implied, oral or written, including but not limited to, any implied warranties or merchantability or fitness for a particular purpose. All such other warranties and representations are hereby cancelled.

### NOTICE :

The equipment presented in this bulletin is to be installed in accordance with the latest publication standards of NFPA or other similar organisations and also with the provision of government codes or ordinances wherever applicable.  
The information provided by us are to the best of our knowledge and belief, and are general guidelines only. Site handling and installation control is beyond our reach. Hence we give no guarantee for result and take no liability for damages, loss or penalties whatsoever, resulting from our suggestion, information, recommendation or damages due to our product.  
Product development is a continuous programme of HD FIRE PROTECT PVT. LTD. and hence the right to modify any specification without prior notice is reserved with the company.